

# SYSTEM FOR TRACKING AND LOCATING AN OBJECT USING A CELLULAR NETWORK

## Abstract

The present invention is directed to a position isolation system comprising at least one portable cellular transmitter adapted for wireless data communication via an associated cellular communication system. Data exchange between the at least one cellular transmitter and an associated tracking station is initiated via the associated cellular communication system. The data exchange obtains additional position data representing an associated, cellular relay system through which the cellular data exchange is made, enabling isolation of the location of the portable cellular transmitter in a limited geographic region. The position isolation system also includes a secondary transmission system, associated with the portable transmitter, that is adapted for outputting information representing secondary location data. The secondary location data has a positioning resolution within that of the limited geographic region.